

Title (en)
RARE EARTH-ZSM-5/ZSM-11 COCRYSTALLINE ZEOLITE

Title (de)
SELTENERDHALTIGER ZSM-5/ZSM-11 COKRISTALLINER ZEOLITH

Title (fr)
ZEOLITE COCRISTALLINE ZSM-5/ZSM-11 CONTENANT DES TERRES RARES

Publication
EP 0801027 A1 19971015 (EN)

Application
EP 95941571 A 19951225

Priority
• CN 9500099 W 19951225
• CN 94113403 A 19941230

Abstract (en)
A rare earth-containing zeolite with a cocrystalline structure of ZSM-5 and ZSM-11, wherein the weight ratio of the moiety having the crystalline structure of ZSM-5 to the moiety having the crystalline structure of ZSM-11 is 0.1 to 10, which has, in the sodium form, the X-ray diffraction pattern set forth in Table 1, and in its originally synthesized anhydrous state, a chemical formula in terms of mole ratios of oxides as follows: 0.1-1.0 Na₂O . 0.01-1.0 RE₂O₃ . Al₂O₃ . 20-300 SiO₂ . Said zeolite has good acid hydrothermal stability and resistance against impurity contamination, and is useful as catalyst in various hydrocarbon conversions.

IPC 1-7
C01B 39/36; C01B 39/04; B01J 29/04

IPC 8 full level
B01J 29/48 (2006.01); **B01J 29/40** (2006.01); **B01J 29/80** (2006.01); **C01B 39/36** (2006.01); **C07B 37/00** (2006.01); **C07B 37/02** (2006.01); **C07B 61/00** (2006.01); **B01J 29/70** (2006.01)

CPC (source: EP KR US)
B01J 29/80 (2013.01 - EP US); **C01B 39/36** (2013.01 - EP KR US); **C01B 39/365** (2013.01 - EP US); **B01J 29/40** (2013.01 - EP US); **B01J 29/70** (2013.01 - EP US); **Y10S 423/22** (2013.01 - EP US); **Y10S 423/29** (2013.01 - EP US)

Cited by
SG155033A1; CN100438979C; US7510644B2; US6809055B2; WO2009087576A3; WO0232812A3; WO2008148684A1; WO0104051A1

Designated contracting state (EPC)
FR GB

DOCDB simple family (publication)
EP 0801027 A1 19971015; **EP 0801027 A4 19970929**; **EP 0801027 B1 19990908**; AU 4296596 A 19960724; AU 690402 B2 19980423; BR 9507194 A 19970909; CN 1041399 C 19981230; CN 1137022 A 19961204; JP 3337221 B2 20021021; JP H10501515 A 19980210; KR 100249393 B1 20000315; KR 970701156 A 19970317; TW 295554 B 19970111; US 5869021 A 19990209; WO 9620891 A1 19960711; ZA 9511043 B 19960912

DOCDB simple family (application)
EP 95941571 A 19951225; AU 4296596 A 19951225; BR 9507194 A 19951225; CN 94113403 A 19941230; CN 9500099 W 19951225; JP 52066496 A 19951225; KR 19960704586 A 19960821; TW 84114014 A 19951228; US 57509095 A 19951219; ZA 9511043 A 19951228